

Application No.: 10/656,122Docket No.: 4006-265AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-13. (cancelled)

14. (currently amended) A liquid crystal display, ~~comprises~~ comprising:

a first substrate;

a second substrate;

~~substrate and said second substrate;~~

a plurality of reflection regions formed over said first substrate;

a plurality of transmission regions formed over said first substrate;

a transparent conductor layer formed in said transmission regions;

a plurality of reflection electrodes formed in said reflection regions ~~including a plurality of reflection electrodes;~~ and

an orientation layer formed over said reflection electrodes and said transparent conductor layer, wherein a first rubbing force is applied to said orientation layer to define a first orientation direction and a second rubbing force is applied to selected regions of said orientation layer to change said first orientation direction in said selected regions to a second orientation direction ~~wherein so that said orientation layer formed over said reflection electrode regions has a first orientation direction and said orientation layer formed over said transparent conductor layer transmission regions has a second different said second and first orientation direction[;]]~~ directions, respectively;

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~~wherein~~ said first orientation direction differs from said second orientation direction and
said first rubbing force is larger than said second rubbing force.

15. (currently amended) The liquid crystal display of claim 14, wherein said ~~[[first]]~~
~~second~~ orientation direction ~~is adjusted and determined said~~ defines a liquid crystal twist angle
between about 70 degrees and 90 degrees in the reflection regions.

16. (currently amended) The liquid crystal display ~~substrate structure,~~ of claim 14, wherein
said ~~second-first~~ orientation direction ~~is adjusted and determined said~~ defines a liquid crystal
twist angle between about 10 degrees and 70 degrees in the transmission regions.

17. (original) The liquid crystal display of claim 14, wherein the orientation layer formed
over said first substrate has concave and convex structures.

18-19. (cancelled)

20. (new) A liquid crystal display comprising:

- a first substrate;
- a second substrate;
- a liquid crystal layer interposed between said first substrate and said second substrate;
- a pixel region having a reflection region and a transmission region formed over said first
substrate;
- a continuous wave surface formed over said reflection region and said transmission
region;
- a reflection electrode formed in said reflection region substantially located in a peak area
of said continuous wave surface;
- a transmission electrode formed in said transmission region substantially located in a
valley area of said continuous wave surface; and
- an orientation layer formed over said transmission electrode and said reflection electrode,
wherein said orientation layer formed over said transmission region has a first orientation
direction and said orientation layer formed over said reflection region has a second orientation

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direction, and said first orientation direction is different from said second orientation direction.

21. (new) The liquid crystal display of claim 20, wherein said first orientation direction defines a liquid crystal twist angle between about 10 degrees and 70 degrees in said transmission region.

22. (new) The liquid crystal display of claim 20, wherein said second orientation direction defines a liquid crystal twist angle between about 70 degrees and 90 degrees in said reflection region.

23. (new) The liquid crystal display of claim 20, wherein a first rubbing force is applied to said orientation layer to define said first orientation direction and a second rubbing force is applied to selected regions of said orientation layer to change said first orientation direction in said selected regions to said second orientation direction.

24. (new) The liquid crystal display of claim 23, wherein said first rubbing force is larger than said second rubbing force.

25. (new) The liquid crystal display of claim 20, wherein an UV light with a first polarized direction irradiates said orientation layer to form said first orientation direction.

26. (new) The liquid crystal display of claim 25, wherein said UV light irradiates said orientation layer from back side of said first substrate and utilizes said reflection electrode as a mask.

27. (new) The liquid crystal display of claim 20, wherein an UV light with a second polarized direction irradiates said orientation layer to form said second orientation direction.